

Appendix M Studies and Reports

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M.1 Summaries of Studies and Reports

This section contains summaries of the studies and reports referenced in this mitigation plan. Copies of the complete reports and studies are available upon request.

M.1.1 2010 TAMU Population Estimate

For estimates of current population, a 2010 population estimate was utilized. This estimate was prepared by Texas A&M University Galveston, and was published after research and study of the City's post-Ike population. While the 2000 Census population remained the official population count at the time this Plan was developed, the City felt it was important to use the best possible data. While the Census is the official population count, those population figures cannot account for population changes over the last decade, especially those changes that occurred as a result of Hurricane Ike. The City anticipates that the 2010 Census population figures will be aligned with the 2010 TAMUG population estimates. For this reason, the TAMUG estimates were used in this Plan wherever possible.

M.1.2 National Hurricane Center Tropical Cyclone Report – Ike

Hurricane Ike was a defining event for the City of Galveston. No storm since the 1900 Hurricane has so greatly impacted the City and its residents. This Plan was developed while the City was still struggling with their recovery from Ike, and while decisions and determinations were still being made as to what the future of the City would be. For these reasons, this Plan frequently refers to Hurricane Ike and its effects on the City. The official report on Hurricane Ike, as issued by the National Hurricane Center, was used as a resource for this Plan.

M.1.3 Coastal Retreat and Sea Level Rise

This Plan profiles a variety of hazards, including hazards that are specific to coastal areas. As part of the development of these profiles, information from a US Geological Survey report was utilized in a number of the hazard profiles. This report, *Predicting Coastal Retreat in the Florida Big Bend Region of the Gulf Coast under Climate Change Induced Sea-Level Rise*, contained valuable information on coastal hazards from an official source. While the report presents these hazards in the context of another area of the Gulf Coast, the base information contained in the report was a useful tool in the development of the hazard profiles for this mitigation plan.

M.1.4 Hurricane Ike and Costal Change

Hurricane Ike changed the very coastline of Texas. The US Geological Survey prepared the definitive report on how Hurricane Ike affected the Texas coast. This report contains valuable information, and was used frequently throughout this Plan.

M.1.5 Galveston Geohazards Report

In 2004, a report was prepared for the Galveston City Council regarding the island's "physical integrity." This report considered both the geologic processes at work and the hazards likely to affect these processes. This report was used for context and background information throughout this Plan.

M.1.6 GLO Coastal Erosion Report

In 2007, the Texas General Land Office (GLO) prepared a report for the State Legislature on the Coastal Erosion Planning and Response Act (CEPRA). This report provided information on critical erosion areas in the State of Texas, and the proposed response to the erosion in these areas. This report was used in the development of the community profiles, the hazard profiles and risk assessments.

M.1.7 Comprehensive Housing Market Study Report

In late 2009 the City of Galveston's Grants and Housing Department hired Camp, Dresser and McKee (CDM) to conduct a comprehensive housing market study. The study's purpose was to understand the composition of the City's housing inventory and to identify unmet housing needs in the community. This report will provide the basis for a strategic housing plan and will help guide future efforts of the City as it engages the community to decide how to address short and long term housing needs.

CDM utilized the most recent data and information on resident demographics and housing conditions. When possible the analysis accounted for changes prior to and after Hurricane Ike. The study relied significantly on input from the Galveston Community Recovery – Housing Market Study Subcommittee and acknowledged goals from the Long-Term Community Recovery Plan.